

## Insects From the Summit of Mauna Kea

BY O. H. SWEZEY AND F. X. WILLIAMS

(Presented at the meeting of November 5, 1931)

On October 5, 1931, the ascent of Mauna Kea was made, Forest Ranger Joe Ignacio acting as guide, and the trip made from the Keanakolu ranger station at an elevation of 5,250 feet. The following insects were collected mostly at Lake Waiau, 13,007 feet elevation. Several of the flies (particularly *Chaetogaedia monticola*) were quite common at the very summit of the mountain, 13,784 feet elevation. Quite a number were found drowned in a soda water bottle which had not been entirely emptied, left by a recent visitor. Some of the specimens were in too poor condition for determination.

From Soda Water Bottle.

### HYMENOPTERA

- 2 *Amblyteles koebeli* (Swezey).
- 1 *Amblyteles purpuripennis* (Cress.).
- 1 *Hyposoter exiguae* (Vier.).

### LEPIDOPTERA

- 3 *Euxoa mesotoxa* (Meyr.).

### DIPTERA

- 2 *Chaetogaedia monticola* (Bigot).
- 3 *Calliphora vomitoria* (Linn.).
- 2 *Sarcophaga haemorrhoidalis* Fall.
- 3 Undetermined muscids.
- 2 Undetermined anthomyids (?).
- 1 *Agromyza pusilla* Meig.
- 1 Mycetophilid (?).
- 1 Chironomid (?).

### HEMIPTERA

- 2 *Nysius delectus* White.

Others Collected Chiefly at Lake Waiau.

### HYMENOPTERA

- 1 *Polistes fuscatus* var. *aurifer* (Sauss.). Fragments at summit.
- 1 *Amblyteles purpuripennis* (Cress.).
- Anoplus luctuosus* (Cress.). Observed at Waiau, but not caught. A spider was also noticed under stones and was probably preyed upon by this wasp.

## LEPIDOPTERA

- 1 *Adenoneura montanum* Walsm.
- 1 *Scotorythra* (?). Fragments at summit.

## DIPTERA

- 4 *Chaetogaedia monticola* (Bigot).
  - 3 *Haematobia irritans* (Linn.). Perhaps came up on the horses.
  - 1 *Phormia regina* (Wied.).
  - 1 *Piophilæ casei* (Linn.).
  - 1 *Eristalis tenax* (Linn.).
  - 2 *Simosyrphus grandicornis* (Macq.). One at the summit.
  - 1 *Allograpta obliqua* (Say).
  - 1 *Brachydeutera hebes* Cress.
  - 1 *Sciara* sp.
  - 1 Cecidomyid (?).
- Tipulids were observed at the lake, but not caught.

## COLEOPTERA

- 1 Small staphylinid. Under stone.

## HEMIPTERA

- 3 *Nysius delectus* White.
- 1 *Peregrinus maidis* (Ashm.). On surface of lake.
- 1 *Ilburnia pseudorubescens* (Muir). On surface of lake.
- 1 Green Cyathodes jassid. On surface of lake.
- 1 Aphid. On surface of lake.